

Title (en)
SURVEILLANCE AND COLLISION AVOIDANCE SYSTEM AND METHOD

Title (de)
SYSTEM UND VERFAHREN ZUR ÜBERWACHUNG UND VERMEIDUNG VON KOLLISIONEN

Title (fr)
PROCEDE ET SYSTEME DE SURVEILLANCE ET D'EVITEMENT DES COLLISIONS

Publication
EP 1412931 B1 20110112 (EN)

Application
EP 02750258 A 20020722

Priority
• US 0223409 W 20020722
• US 90957801 A 20010720

Abstract (en)
[origin: US2003016159A1] A formation collision avoidance system includes a Traffic Alert and Collision Avoidance System (TCAS) having a passive mode and an active mode. The passive mode enables several members of an aircraft formation to fly without actively interrogating using TCAS while only one or few formation members are actively interrogating. Formation members in passive mode maintain awareness of current air and ground traffic conditions using networked surveillance information provided over a communications link between formation members in active mode and formation members in passive mode. The networked surveillance information includes positional and intent information of current air/ground traffic obtained from ADS-B broadcasts and replies to the actively interrogating members of the formation. The communications link utilizes Station Keeping Equipment (SKE) already existing on certain aircraft.

IPC 8 full level
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